



CNC Control Identification

Checking your software version

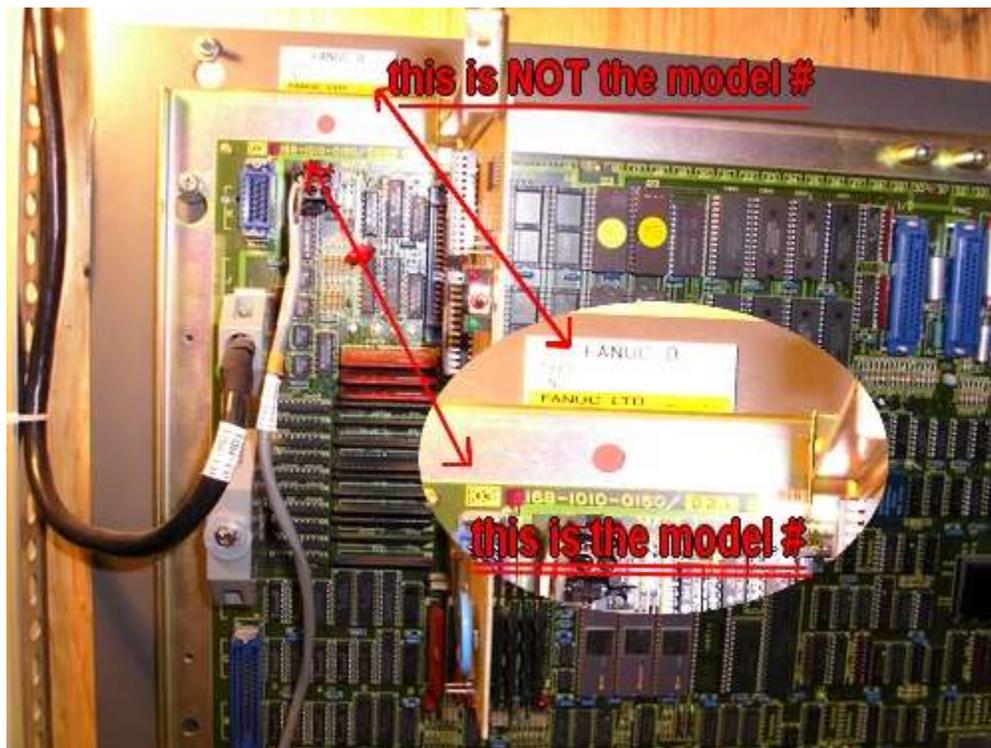
The software version also confirms the model of your control, and memory options. You can determine the software version by powering-up the control with E-stop active (button depressed). The control should hang on the software version screen (in the lower right corner of this screen, you will see the servo version number as well).

Fanuc 0 Control Identification

In order to find the control type, check the serial number of your Fanuc zero:

To determine the version of the Fanuc 0 series CNC Control, check the master board number and/or the software version. The master board is found on the top left side of the main circuit board, usually mounted in the control cabinet that has the daughter card attached.

It should not be confused with "A03B-????-????" numbers, which are Fanuc's ordering numbers and are usually found on a sticker above the master board.



Fanuc 6, 9, 11 & 12 Control Identification & Memory Size Chart

Fanuc Series 6, 9, 11 & 12 CNC machine tool controls use Bubble Memory Units (BMUs) to store the following information: System Options, NC Parameters, Macro Variables, Macro Variable Names, Work Offsets, Tool Offsets, PC Parameters, Part Programs, Menu Data and Conversational Programming Data. The BMU is non-volatile and it does not require batteries to maintain its memory. The BMU is a serial device that stores data in loops which can be marked as bad in a special Defect Loop Data section and therefore bypassed (similar to marking a bad sector on a hard drive). The new Fanuc SRAM boards are Static RAM based and are designed to substitute for obsolete BMUs.

Fanuc Memory Identification: The following table outlines the various Fanuc BMU and SRAM sizes that are available. The BMU is found attached to the masterboard on the left side for FS 6 and 11 controls and is found on the right hand side on the Fanuc 9 & 12. In the charts board "Type" refers to the Fanuc 11/12 "Type= xx" heading found in I.P.L. (Initial Program Load) screen which is arrived at by holding "-" + "." on power up. On Fanuc 6B2's, size can be seen in Diagnostic byte 702 - bits 6, 5 & 4 (i.e. x011xxxx is 20 Meters of tape or 8 Kilobytes of part program memory).

Fanuc BMU Boards	Meters	Kilobytes	CNC	Type (11/12)	Diag (6)
A87L-0001-0015	20	8	6A, 6B, 6B2	n/a	011
A87L-0001-0016	40	16	6A, 6B, 6B2	n/a	001
A87L-0001-0017	80	32	6A, 6B, 6B2	4	111
A87L-0001-0018	320	128	6A, 6B, 6B2, 11, 12	0	100
A87L-0001-0084	320	128	6B2, 9, 11, 12	3	101
A87L-0001-0085	640	256	6B2, 9, 11, 12	1	010
A87L-0001-0086	1280	512	6B2, 9, 11, 12	2	110
A87L-0001-0100#8	2560	1024 (1 Meg)	11, 12	9	n/a
A87L-0001-0100#12	3840	1536 (1.5 Meg)	11, 12	10	n/a
A87L-0001-0100#16	5120	2048 (2 Meg)	11, 12	11	n/a
A87L-0001-0105	80	32	11, 12	19	n/a
Fanuc SRAM Boards	Meters	Kilobytes	CNC	Type (11/12)	Diag (6)
A16B-2201-0136	20	8	6A, 6B, 6B2	n/a	011
A16B-2201-0135	40	16	6A, 6B, 6B2	n/a	001
A16B-2201-0134	80	32	6A, 6B, 6B2, 11, 12	4	111
A16B-2201-0133	320	128	6A, 6B, 6B2, 11, 12	0	100
A16B-2201-0132	320	128	6B2, 9, 11, 12	3	101
A16B-2201-0131	640	256	6B2, 9, 11, 12	1	010
A16B-2201-0130	1280	512	6B2, 9, 11, 12	2	110

Notes: The Fanuc 9 can take up to 4 BMUs, but they can only be 1280 Meters in size. The Fanuc 9 uses the first BMU to store its system software, and as such the maximum memory is only 2560 Meters of tape or 1.5 Megs even with all 4 boards installed.

Fanuc 6A and Early 6B Controls:

ROM Software Series	Maximum BMU Size
901/06 or later	1280M
902/07 or later	1280M
Other 900 ROM Series	320M (A87L-0001-0018 BMU only)

Fanuc 6B II (Level Up) Controls:

ROM Series	Memory Limit	ROM Series	Memory Limit
M01	1280M	M52	1280M
M02	1280M	M53	1280M
M03	1280M	M54	1280M
M04	1280M	M55	1280M
M05	1280M	M57	1280M
M06	320M	M59	1280M
M07	1280M	M5C	1280M
M09	1280M	M5E	1280M
M10	1280M	M5F	1280M
M12	1280M	M61	1280M
M14	320M	M71	1280M
M15	320M	M73	1280M
M16	320M	M75	1280M
M1A	1280M	M76	1280M
M1B	1280M	M79	1280M
M1C	1280M	M7C	1280M
M1D	1280M	M81	320M
M21	320M	M83	320M
M22	320M	M85	320M
M25	320M	M87	1280M
M26	320M	M93	1280M
M27	320M	M95	1280M
M28	320M	M97	1280M
M30	320M	M98	1280M
M31	320M	M99	1280M
M33-06	320M	M9C	1280M
M35	320M	MA1	1280M
M37	1280M	MA3	1280M
M39	1280M	MA5	1280M
M40	320M	MA7	1280M
M42	320M	MAC	1280M
M44	320M	MAF	1280M
M45	1280M	MB1	1280M
M46	320M	MB3	1280M
M47	1280M	MCC	1280M
M49	1280M	MF1	1280M
M51	1280M	MF3	1280M
M63 V.02	1880M		

Fanuc 15 Model A & B Control Identification

Memory options differ between the 15A & 15B Control Boards

Fanuc 15 A control boards



(Please note: This image shows a 16B control, but represents the same style as a 15B)



Fanuc 15A

Distinguishing between 100 series and 500 series

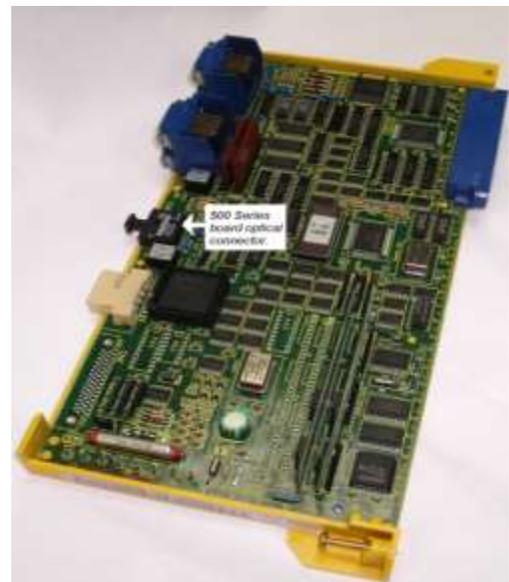
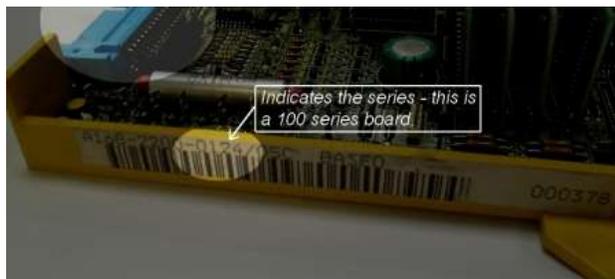
Explanation:

The 500 series has an optical connector and is physically different from the 100 series.

The available memory options are the same and price is the same, but **the series number must be specified when ordering** so that the correct product configuration is shipped.

(Base zero boards are sold on a replacement basis - upgrades cannot be installed on site).

The part number indicates the series, as shown in this image:



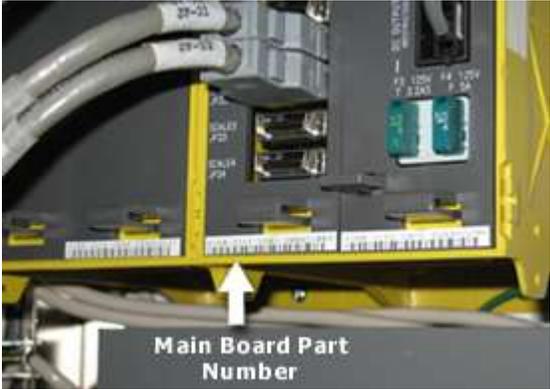
The above image shows a Fanuc 15A 500 series board. Note the optical connector.

Fanuc 16 Model A,B,C Control Identification



The mainboard Part Number is located at the bottom of the second last board on the control. See close up above.

Fanuc 18TA Control Identification



Yasnac MX1/LX1 Control Identification

Your Yasnac control must have one of the following configurations.

Either two boards numbered MM01B and MM05 or one board numbered MM01C-02 as shown on the right side picture.

